

LAC Meeting #7

Thank you for joining us!
The presentation will begin shortly.

Before we begin, please note:

- The public audience will be allowed to speak on agenda items during a specified public comment period. Please register to speak.
- The meeting is being recorded. A video link will be made available at www.honolulu.gov/opala/newlandfill

AGENDA

1

**CALL TO ORDER
ROLL CALL
PUBLIC COMMENT PERIOD**

2

**APPROVAL OF
MEETING 6
MINUTES**

3

PRESENTATION
Objective Criteria Evaluation
Site Scores and Rankings

4

**ANNOUNCEMENTS
AND
ADJOURNMENT**

PRESENTATION AND DISCUSSION

Contents of the Landfill Advisory Committee Report
Potential Benefits for Landfill Host Community

LANDFILL ADVISORY COMMITTEE



Steven Chang

Environmental Regulation



Suzanne Jones

Solid Waste



Ken Kawahara

Professional Engineer
Civil Engineering



Emmett Kinney

General Contracting



Brennon Morioka

Professional Engineer
Civil Engineering



James Nakatani

Agribusiness Development



Cynthia Rezentes

Classical Electrical Engineering
Community Advocate



Trisha Kehaulani Watson

Environmental Justice
Cultural Resources

MEETINGS



LANDFILL CONSTRUCTION ●

October 2024 to March 2028*

LANDFILL DESIGN ●

November 2022 to September 2024*

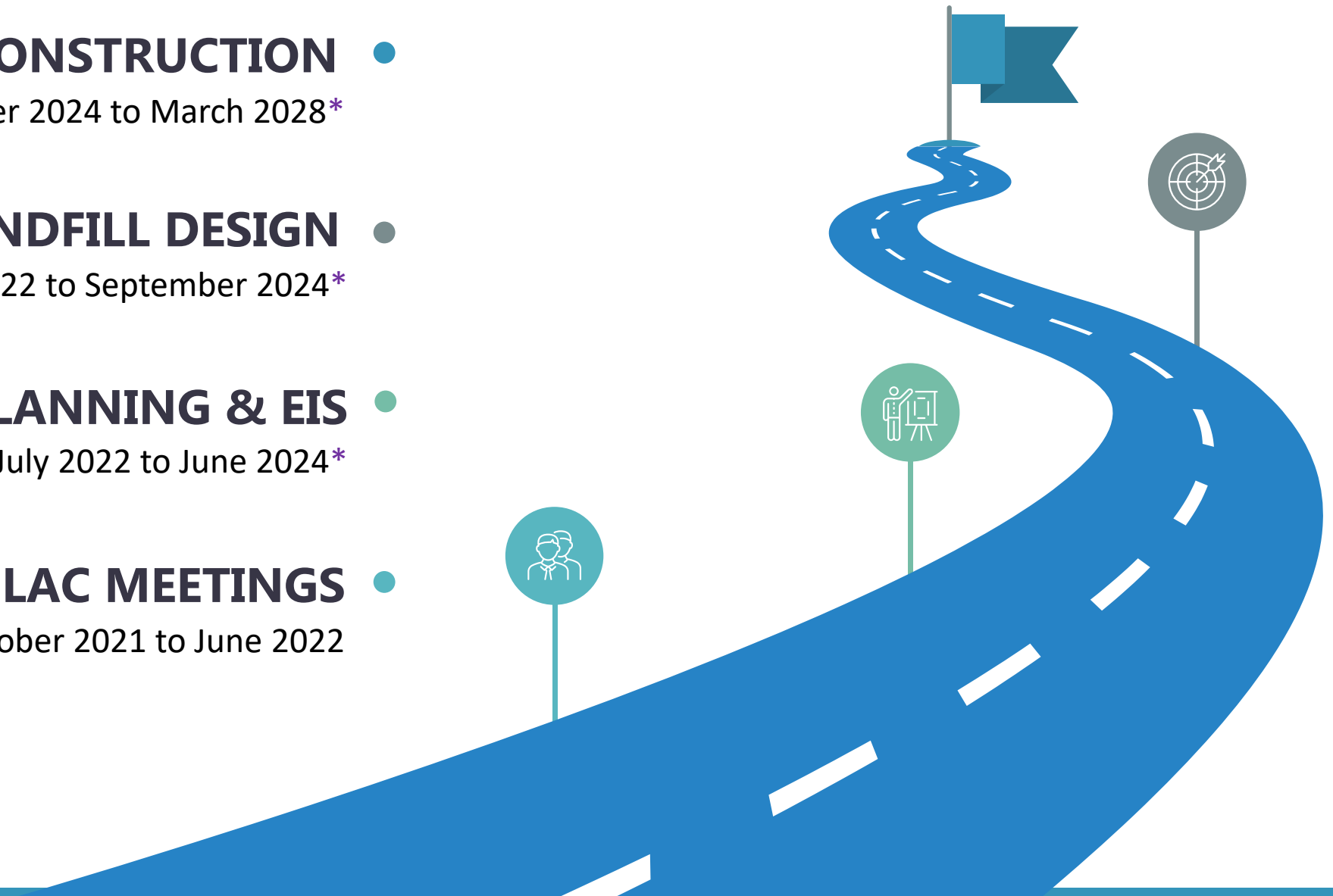
PLANNING & EIS ●

July 2022 to June 2024*

LAC MEETINGS ●

October 2021 to June 2022

* Approximate Dates



ORAL PUBLIC COMMENTS

- ❖ 2 minutes per person
- ❖ Registered commenters first, then any unregistered commenters
- ❖ Please state your name and agenda item on which you are speaking

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Approval of Prior Meeting Minutes

- LAC Meeting #6 – March 7, 2022

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Scoring Methodology Reminder

- Weights submitted by LAC blindly and anonymously (M5)
- Subjective criteria ratings submitted by the LAC anonymously (M6)
- Objective criteria ratings determined by measurable parameters
- Scores calculated for each criteria for each site
- $\text{Score} = \text{Average Weight} \times \text{Average Rating}$

Scoring Methodology Reminder

- Sum all criteria scores to get final scores per site
- Rankings determined by final scores
- Spreadsheets provided at www.honolulu.gov/opala/newlandfill

| Parameter | Capacity | Costs | Time | Location | Roadway recipitatio | IAL | No Pass | |
|------------|----------|--------|--------|----------|---------------------|--------|---------|-------|
| Weight | 86.67 | 59.17 | 47.50 | 60.83 | 68.33 | 71.67 | 61.67 | 91.67 |
| 2.1 Rating | 6.00 | 2.75 | 6.00 | 2.33 | 1.52 | 3.62 | 6.00 | 0.00 |
| 3.1 Rating | 6.00 | 4.75 | 6.00 | 3.51 | 1.43 | 4.66 | 0.00 | 0.00 |
| 3.2 Rating | 6.00 | 6.00 | 6.00 | 3.18 | 1.75 | 4.30 | 6.00 | 0.00 |
| 3.3 Rating | 6.00 | 5.44 | 6.00 | 3.38 | 1.43 | 4.30 | 6.00 | 0.00 |
| 6.1 Rating | 6.00 | 4.34 | 6.00 | 5.29 | 3.07 | 5.10 | 6.00 | 0.00 |
| 7.1 Rating | 6.00 | 4.60 | 6.00 | 6.00 | 6.00 | 6.00 | 0.00 | 0.00 |
| | | | | | | | | |
| Scores | Capacity | Costs | Time | Location | Roadway recipitatio | IAL | No Pass | |
| 2.1 | 520.02 | 162.62 | 285.00 | 141.59 | 103.72 | 259.51 | 370.02 | 0.00 |
| 3.1 | 520.02 | 281.29 | 285.00 | 213.30 | 97.43 | 334.34 | 0.00 | 0.00 |
| 3.2 | 520.02 | 355.02 | 285.00 | 193.68 | 119.43 | 308.10 | 370.02 | 0.00 |
| 3.3 | 520.02 | 321.66 | 285.00 | 205.30 | 97.43 | 308.10 | 370.02 | 0.00 |
| 6.1 | 520.02 | 256.57 | 285.00 | 322.04 | 209.99 | 365.56 | 370.02 | 0.00 |
| 7.1 | 520.02 | 272.24 | 285.00 | 364.98 | 409.98 | 430.02 | 0.00 | 0.00 |

Overview of Potential Landfill Sites

Legend

 Potential Landfill Site



Objective Criteria Definition

Based on unbiased quantifiable **facts** and **observations**.
Is **not** influenced by personal feelings, prejudices, perceptions, or desires.



Objective Criteria Weights

| Criteria | Ave. Weight |
|----------------------------|-------------|
| No Pass Zone | 91.67 |
| Muni. Wells w/in 1,000 ft. | 91.67 |
| Landfill Capacity | 86.67 |
| Precipitation | 71.67 |
| Traffic and Roadway | 68.33 |
| Agricultural Lands | 61.67 |
| Location to H-POWER | 60.83 |
| Costs | 59.17 |
| Time | 47.50 |

*6 of 8 LAC Members submitted weights

Objective Criteria Final Average Ratings

| Site | Capacity | Costs | Time | Location Relative | Traffic/ Roadway | Precipitation | IAL | No Pass | Wells w/in 1000 ft |
|--------|----------|-------|-------|----------------------|---------------------|---------------|-------|---------|-----------------------|
| Weight | 86.67 | 59.17 | 47.50 | 60.83 | 68.33 | 71.67 | 61.67 | 91.67 | 91.67 |
| 2.1 | 6 | 2.75 | 6 | 2.33 | 1.52 | 3.62 | 6 | 0 | 6 |
| 3.1 | 6 | 4.75 | 6 | 3.51 | 1.43 | 4.66 | 0 | 0 | 6 |
| 3.2 | 6 | 6 | 6 | 3.18 | 1.75 | 4.30 | 6 | 0 | 0 |
| 3.3 | 6 | 5.44 | 6 | 3.38 | 1.43 | 4.30 | 6 | 0 | 0 |
| 6.1 | 6 | 4.34 | 6 | 5.29 | 3.07 | 5.10 | 6 | 0 | 6 |
| 7.1 | 6 | 4.60 | 6 | 6 | 6 | 6 | 0 | 0 | 6 |

*Spreadsheets with all weights, ratings, and calculations are at www.honolulu.gov/opala/newlandfill

Objective Criteria Final Average Scores

| Site | Capacity | Costs | Time | Location Relative | Traffic/Roadway | Precipitation | IAL | No Pass | Wells w/in 1000 ft | Objective Subtotal |
|------|----------|--------|--------|-------------------|-----------------|---------------|--------|---------|--------------------|--------------------|
| 2.1 | 520.02 | 162.62 | 285.00 | 141.59 | 103.72 | 259.51 | 370.02 | 0 | 550.02 | 2392.50 |
| 3.1 | 520.02 | 281.29 | 285.00 | 213.30 | 97.43 | 319.84 | 0 | 0 | 550.02 | 2281.40 |
| 3.2 | 520.02 | 355.02 | 285.00 | 193.68 | 119.43 | 308.10 | 370.02 | 0 | 0 | 2151.27 |
| 3.3 | 520.02 | 321.66 | 285.00 | 205.30 | 97.43 | 308.10 | 370.02 | 0 | 0 | 2107.54 |
| 6.1 | 520.02 | 256.57 | 285.00 | 322.04 | 209.99 | 365.56 | 370.02 | 0 | 550.02 | 2879.23 |
| 7.1 | 520.02 | 272.24 | 285.00 | 364.98 | 409.98 | 430.02 | 0 | 0 | 550.02 | 2832.26 |

Objective Criteria Evaluation

DISCUSSION

OPEN TO THE LANDFILL ADVISORY COMMITTEE

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Subjective Criteria Weights

| Criteria | Ave. Weight |
|-------------------------|-------------|
| Ecological Areas | 60.83 |
| Surface Water | 59.17 |
| EJ: Disamenities | 52.50 |
| Land Use Displacement | 52.50 |
| Archaeological/Cultural | 48.33 |
| Parks and Recreation | 47.50 |
| Commercial | 36.00 |
| View Planes | 33.33 |

*6 of 8 LAC Members submitted weights

Subjective Criteria Final Average Ratings

| Site | Land Use Displacement | Ecological Areas | Surface Water | Arch./ Cultural | Parks/ Recreation | Commercial | EJ: Disamenities | View Planes |
|--------|-----------------------|------------------|---------------|-----------------|-------------------|------------|------------------|-------------|
| Weight | 52.50 | 60.83 | 59.17 | 48.33 | 47.50 | 36.00 | 52.50 | 33.33 |
| 2.1 | 0.75 | 2.50 | 2.38 | 1.88 | 5.50 | 5.50 | 3.50 | 4.13 |
| 3.1 | 3.50 | 2.50 | 3.88 | 4.63 | 5.50 | 4.13 | 4.50 | 3.75 |
| 3.2 | 3.75 | 2.13 | 2.38 | 4.75 | 5.50 | 5.50 | 4.50 | 4.25 |
| 3.3 | 3.50 | 2.63 | 3.75 | 4.00 | 5.50 | 3.88 | 4.38 | 4.13 |
| 6.1 | 2.00 | 3.13 | 2.63 | 2.88 | 3.25 | 5.38 | 5.00 | 3.63 |
| 7.1 | 0.88 | 4.38 | 3.00 | 2.13 | 1.63 | 5.38 | 4.75 | 3.50 |

*8 of 8 LAC Members submitted subjective criteria ratings

Subjective Criteria Final Average Scores

| Site | Land Use Displacement | Ecological Areas | Surface Water | Arch./ Cultural | Parks/ Recreation | Commercial | EJ: Disamenities | View Planes | Subjective Subtotal |
|------|-----------------------|------------------|---------------|-----------------|-------------------|------------|------------------|-------------|---------------------|
| 2.1 | 39.38 | 152.08 | 140.53 | 90.62 | 261.25 | 198.00 | 183.75 | 137.49 | 1203.08 |
| 3.1 | 183.75 | 152.08 | 229.28 | 223.53 | 261.25 | 148.50 | 236.25 | 124.99 | 1559.62 |
| 3.2 | 196.88 | 129.26 | 140.53 | 229.57 | 261.25 | 198.00 | 236.25 | 141.65 | 1533.39 |
| 3.3 | 183.75 | 159.68 | 221.89 | 193.32 | 261.25 | 139.50 | 229.69 | 137.49 | 1526.56 |
| 6.1 | 105.00 | 190.09 | 155.32 | 138.95 | 154.38 | 193.50 | 262.50 | 120.82 | 1320.56 |
| 7.1 | 45.94 | 266.13 | 177.51 | 102.70 | 77.19 | 193.50 | 249.39 | 116.66 | 1229.00 |

Final Site Rankings and Total Scores

| Rank | Area | Site | Score |
|------|------|------|-------|
| 1 | 6 | 1 | 4,200 |
| 2 | 7 | 1 | 4,061 |
| 3 | 3 | 1 | 3,841 |
| 4 | 3 | 2 | 3,685 |
| 5 | 3 | 3 | 3,634 |
| 6 | 2 | 1 | 3,596 |

*Scores rounded to the nearest whole number



RANK 6:

Area 2, Site 1 Hale'iwa near Kawailoa Road

Score: 3,596



0 0.5 mi



RANK 5-3:

Area 3 Wahiawā

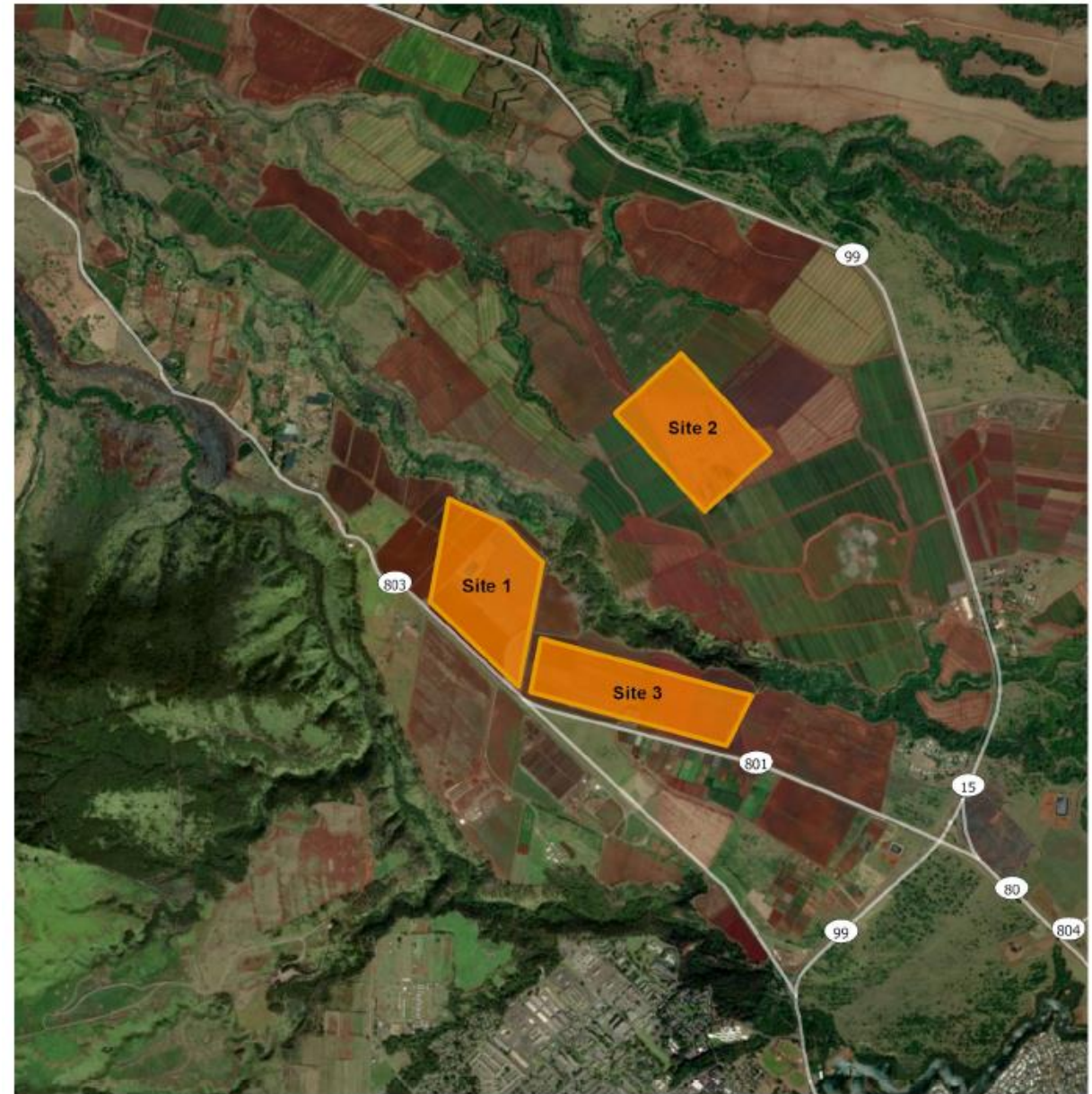
Site 3 – 3,634 (#5)

Site 2 – 3,685 (#4)

Site 1 – 3,841 (#3)



0 0.5 mi



Area 7, Site 1

Kapolei/Waipahu

Near Kunia Road

DETAIL MAP EXTENT

Pearl City Kailua

Honolulu



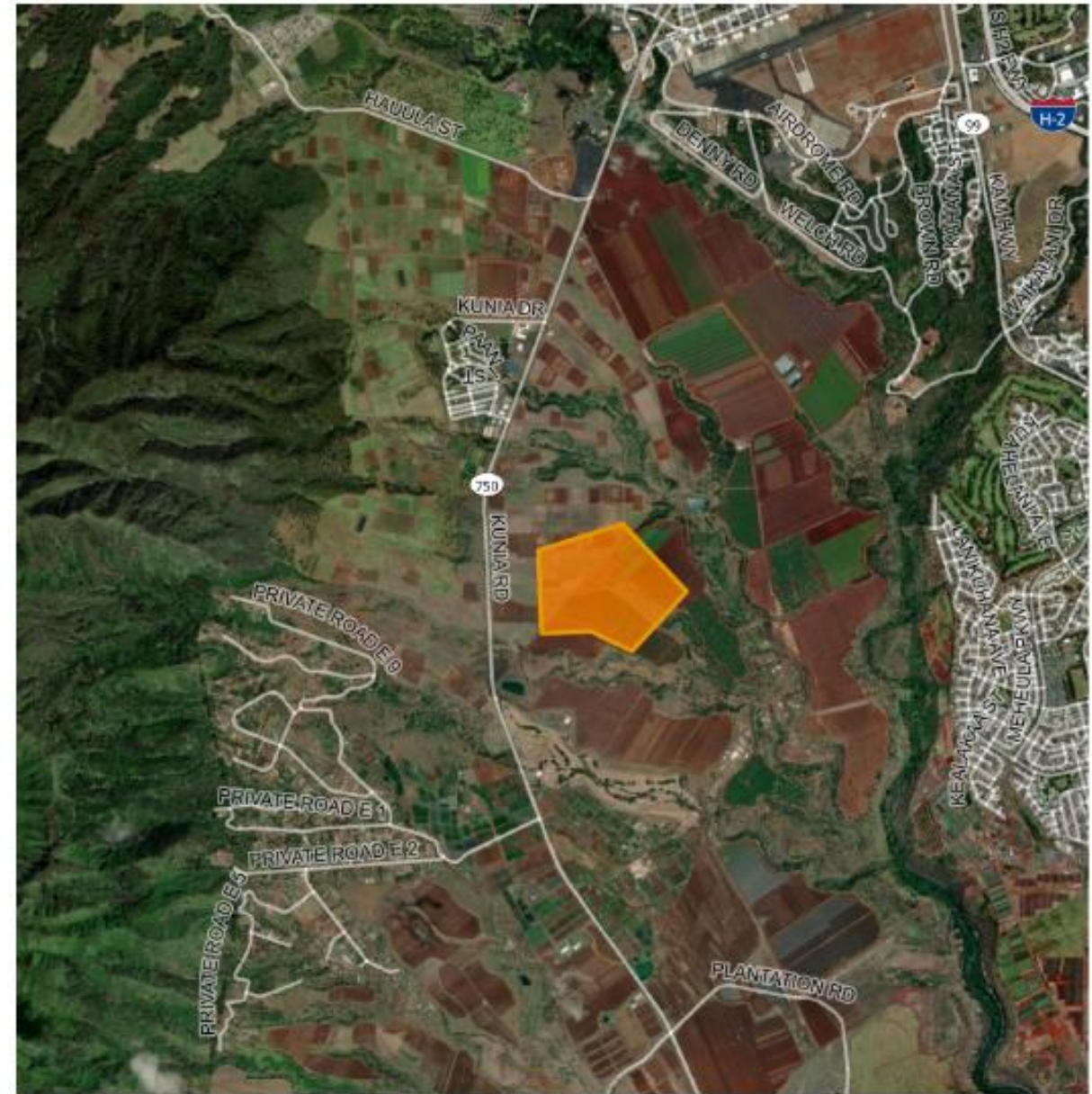
RANK 1:

Area 6, Site 1 Wahiawā near Kunia Road

Score: 4,200



0 0.5 mi



Site Scores and Rankings

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Landfill Advisory Committee Report

- Document the process engaged in by the LAC
- Detail the scoring process
- Record the results of the committee
- Bind together all the supporting documents from the process

Section 1 – Executive Summary

- 1.1 Introduction
- 1.2 Need for a Landfill Site and History
- 1.3 Landfill Advisory Committee
- 1.4 The Site Identification Process
- 1.5 The Evaluation Process
- 1.6 Findings and Committee Recommendations

Section 2 – Introduction

2.1 Need for a Landfill Site

2.2 History and Lead Up to the Landfill Advisory Committee

Section 3 – Landfill Advisory Committee

3.1 Landfill Advisory Committee's Role

3.2 Members of the Landfill Advisory
Committee

3.3 Overview of the Committee's Process

3.4 Public Outreach and Incorporation into the
LAC Process

Section 4 – Identification of Potential Landfill Sites

4.1 Prior Landfill Siting Studies

4.2 Parameters and Restrictions for Landfill Siting

4.3 Geographic Information System (GIS) Based Evaluation

Section 5 – Site Scoring Methodology

5.1 Site Evaluation Criteria

5.2 Landfill Site Evaluation Method

5.3 Data Gathering and Tabulation

Section 6 – Findings and Committee Recommendations

6.1 Results of the Scoring Process

6.2 Site Ranking

6.3 Committee Recommendations

6.4 Community Benefits / Future Public Outreach

Supplemental Information

APPENDICES

- LAC Meeting Supporting Documents, Minutes, and Written Public Comments
- Individual LAC member statements on selection process and results (if any)

Report Process



Contents of the Landfill Advisory Committee Report

DISCUSSION

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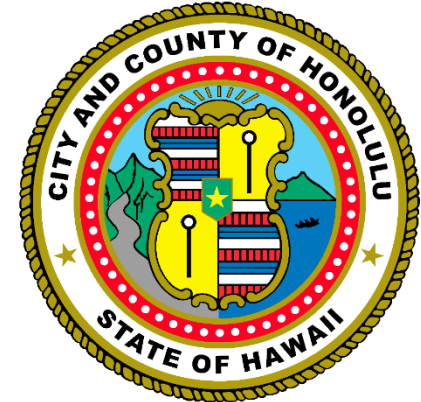
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Landfill Host Community Benefits (HCB)

- “Cash payments or in-kind gifts that are paid to a community by the developer for the right to site a landfill within a community’s jurisdiction” – U.S. Environmental Protection Agency
- “The cornerstones of Host Community Benefits are mitigation (alleviation of landfill impacts such as landscaping and revegetation to alleviate visual impacts), and compensation (just payment to offset living near the landfill).” – County of Kaua‘i

Honolulu HCBs

- The City and County of Honolulu will establish HCBs for the next landfill, including establishment of a committee to decide the HCBs
- The HCB Committee will be formed as early as during the EIS process
- The City requests HCB suggestions from the LAC to be provided to the HCB Committee



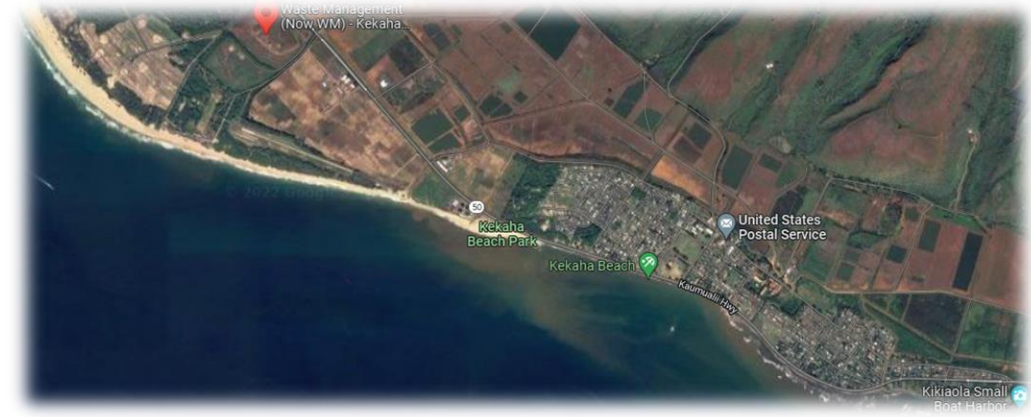
Waimānalo Gulch Sanitary Landfill HCBs

- \$3 million for non-profit grants managed by Department of Community Services
 - Recommendations for distribution by a 10-member committee of West O‘ahu Residents
- \$3.5 million for City Parks construction projects
- Funded by the general fund



Outer Islands

- Hawai'i County – None known
- Maui – None known
- Kaua'i County – Kekaha Landfill Host Community Benefits
 - Starting allotment of \$650,000 for the Kekaha Community
 - \$2,567,279.60 total (per Civil Beat Article)
 - Citizen Advisory Committee manages funds



US EPA Report/Other Jurisdiction Example HCBs

- Free or reduced curbside collection, disposal, or recycling services
- Household Hazardous Waste Drop-off Days
- Annual Spring Clean-Up
- Container Rental and Disposal Services
- Hiring preferences
- Funding
 - Flat dollar amount per ton
 - Percentage of per ton fees

| Table 1: Type of Compensation | |
|---|----------------|
| Type | Percent |
| Zero | 52% |
| Per-ton of Waste | 31% |
| Percent of Revenue | 4% |
| In-kind Gifts | 16% |
| Free Collection, Disposal, Recycling | 11% |
| Preferential Hiring, Reimbursement | 3% |

Jenkins, Robin R.; Kelly M. Maguire; and Cynthia Morgan. 2004. Host Community Compensation and Municipal Solid Waste Landfills. *Land Economics* 4: 513-28.

Potential Benefits for Landfill Host Community

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Announcements

- Final LAC Meeting #8 – June 6, 2022 (Tentative)
- LAC Report will be provided for review at least two weeks prior to LAC Meeting #8
- Discussion on report edits at LAC Meeting #8
- Individual Member Statements due by June 5, 2022

Adjournment

THANK YOU FOR YOUR PARTICIPATION!

